

# ThruLink™ Series Standard / Standard+

Encrypted, Hardware VPN Transmission System  
With Embedded 3G/4G Connectivity



## Product Description

The KBC ThruLink is a hardware VPN device that allows secure communications to be established over any standard, public or private TCP/IP network. ThruLink performs behind firewalls, NAT devices and through almost any other type of network configuration and offers encrypted communication for all IP protocols regardless of the type of traffic. When deployed, ThruLink provides a secure and encrypted tunnel for network communications that will not affect TTL, UPnP, VLAN information, broadcast, multicast, or any other traffic. A built-in modem provides 3G/4G connectivity and supports all primary network providers.

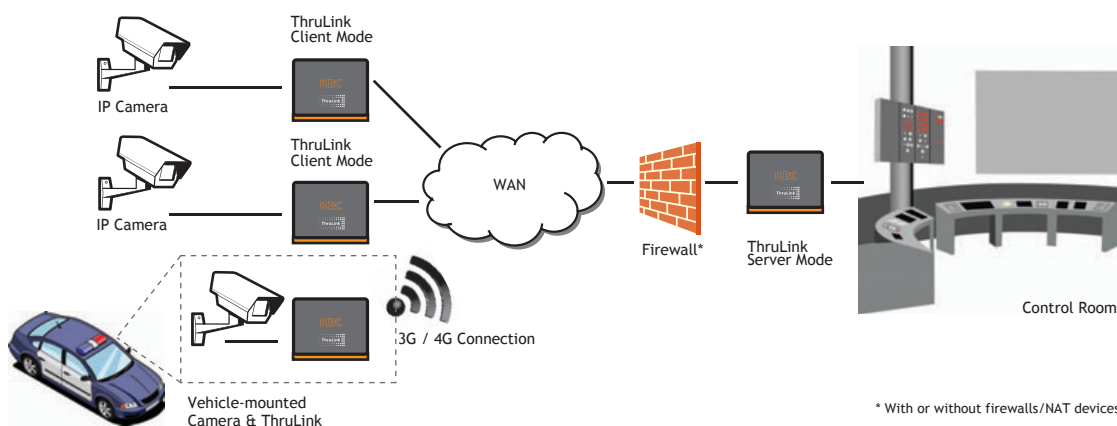


In addition to star-based applications, ThruLink supports mesh-based networks allowing direct connection without the need for central server authentication.

## Product Features

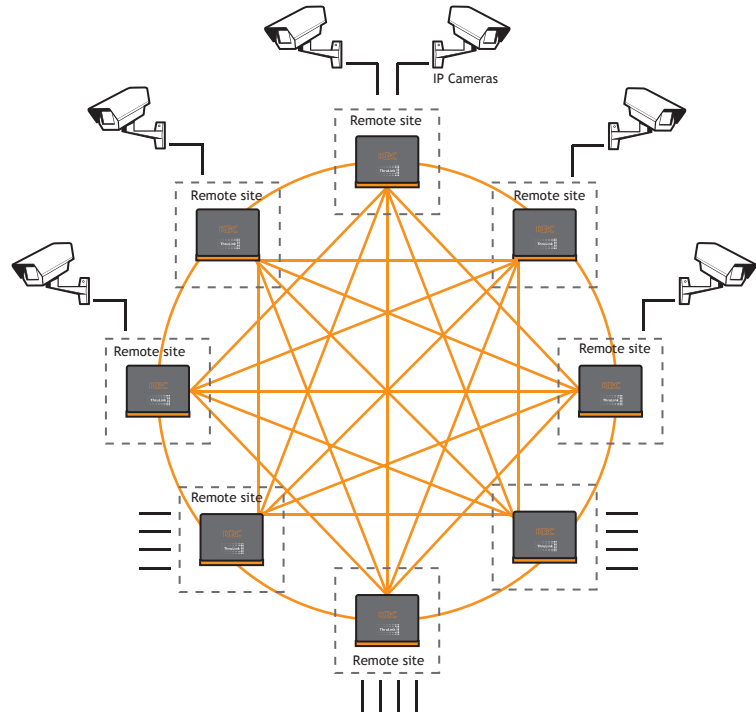
- Encrypted communication up to 256bit via tunnelling
- Throughput: Standard: 15Mbps, Standard Plus: 30Mbps
- Optimized for video
- Configurable for 3G/4G networks
- Supports mesh applications - no central server requirement
- Multiple failover
- Simple installation
- Easy-to-use graphical user interface
- No need to make network changes
- Diagnostic tools: network traffic monitoring, basic ping function
- IPv4 and IPv6 support
- DHCP
- PoE supported on WAN port (PD device)
- Secure encrypted certificate based connection (RSA)
- DHCP service on LAN port (optional)
- Built to perform in non-conditioned environments
- Supports RS-485 data transmission

## Typical System Configurations



## Meshed Configuration

ThruLink enables meshed networks to be established providing network redundancy and allowing direct connection without the need for central server authentication.



## Specifications

### ThruLink, Standard (SC) / Standard Plus (SC)

Throughput	Standard Standard Plus	15Mbps 30Mbps	For the following mobile network providers, please consult KBC Networks	T-Mobile, Cincinnati Bell, CTC, DAVE, Bragg, loblative, Mobility, Nextel Mexico, Shaw, Stelera Videotron, Wind Please contact KBC Networks for details
Encryption		AES: 128/192/256bit Blowfish: 128/192/256bit Camellia: 128/192/256bit SHA1, SHA256 <sup>(1)</sup> RSA: 2048 FIPS 140-2 <sup>(2)</sup>	Antennas	
Management User Interface		Web GUI	<b>Environmental</b> Operating Temperature	Standard temp Extended <sup>(6)</sup> -10 ~ +70°C / 14 ~ 158°F -20 ~ +85°C / -4 ~ 185°F
			Operating Humidity	0 to 95% non-condensing
			Mean Time Between Failure (MTBF)	>200,000 hours
			Dimensions <sup>(3)</sup>	190 x 165 x 29mm / 7.5 x 6.5 x 1.125
<b>Mobile Interface</b>			<b>Connectors</b>	2 x RJ45 <sup>(4)</sup> SMA (male) DB9 Jack socket or PoE
Band	Quad-band WCDMA/HSPA/HSPA+ Quad-band GSM/GPRS/EDGE	2100/1900/900/850MHz 1900/1800/900/850MHz	10/100/1000 3G / 4G Serial Power	
Max Transmitter Power	WCDMA/HSPA/HSPA+ 2100/1900/900/850MHz	+24dBm (power class 3)		
	GSM/GPRS 850/900MHz GSM/GPRS 1800/1900MHz EDGE 850/900MHz EDGE 1800/1900MHz	+33dBm (power class 4) +30dBm (power class 1) +27dBm (power class E2) +26dBm (power class E2)		
Regional Frequency Bands				
Band I: WCDMA 2100MHz		Africa, Asia, Europe, Middle East		
Band II: WCDMA 1900MHz		North America, South America		
Band III: WCDMA 1800MHz		Unassigned		
Band IV: WCDMA 1700/2100MHz (AWS)		North America		
Band V: WCDMA 850MHz		Asia, Australia, Brazil, Canada, Mexico, South America, USA		
Band VI: WCDMA 800MHz		Japan		
Band VII: WCDMA 2500MHz				
Band VIII: WCDMA 900MHz				
Band IX: WCDMA 1700MHz		Japan		
4G LTE <sup>(5)</sup>				
EMEA		LTE Bands (B1/B2/B3/B5/B7/B8/B20)		
North America		LTE Bands (B2/B4/B5/B13/B17/B25/B26)		

1. Automatically set depending on encryption type used

2. Please contact us for FIPS compliant encryption library

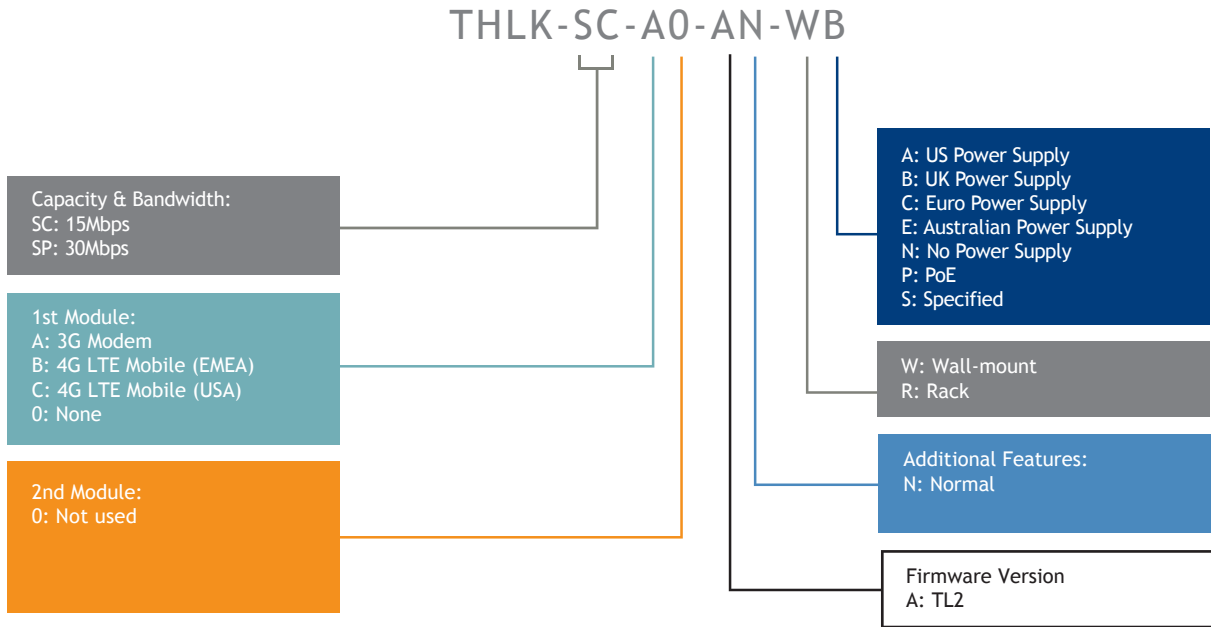
3. Product body dimensions. Please contact KBC Networks for product drawing and dimensions of mount

4. When mobile port is used, one of the RJ45 interfaces will be disabled

5. Please request the region requirement when purchasing

6. Maximum extended temperature for short periods of operation

# Part Number Configurator



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